SAMSUNG

MICROWAVE OVEN

Owner's Instructions and Cooking Guide

CS4550

""Quick" Look-up Guide 2
Oven 2
Control Panel 3
Accessories 3
Using this Instruction Booklet 4
Safety Precautions 4
Installing Your Microwave Oven 6
Setting the Time 6
Checking that Your Oven is Operating Correctly 7
Setting a Standing Time 7
How a Microwave Oven Works 8
What to Do if You are in Doubt or You have a Problem 8
Cooking/Reheating 9
Power Levels and Time Variations 9
Stopping the Cooking 9
Adjusting the Cooking Time 10
Selection and Change of Weight Unit 10
Using the Auto Cook Feature 10
Using the Auto Reheat Feature 12
Using the Auto Defrost Feature 13
Using the Snack Feature 14
Using a Crusty Plate 15
Multistage Cooking 16
Fast Preheating the Oven 16
Cooking by Convection 17
Grilling 17
Choosing the Accessories 18
Spit-Roasting 18
Using The Vertical Multi-Spit 19
Combining Microwaves and the Grill 19
Combining Microwaves and Convection 20
Using the Deodorize Feature 21
Safety-locking Your Microwave Oven 21
Switching the Beeper Off 21
Using the Memory Cook Feature 21
Cookware Guide 22
Cooking Guide 23
Cleaning Your Microwave Oven 27
Storing and Repairing Your Microwave Oven 28
Technical Specifications 28

Code No.: DE68-03367A

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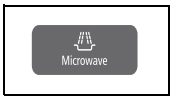
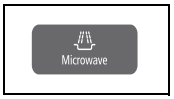
"Quick" Look-up Guide

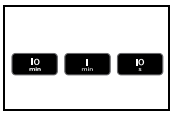
I want to cook some food



1. Place the food in the oven.
Press the **Microwave**( ) button.



2. Press the **Microwave**( ) button until the appropriate power level is displayed.



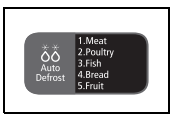
3. Select the cooking time by pressing the **10min, 1min** and **10s** buttons as required.

4. Press **Start** button.
Result: Cooking starts
- When cooking has finished, the oven will beep and flash "0" four times. The oven will then beep one time per minute.

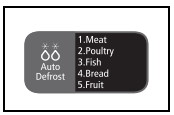
I want to add an extra 30 seconds

Leave the food in the oven.
Press **+30s** button one or more times for each extra 30 seconds that you wish to add.

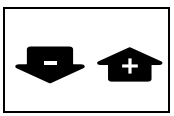
I want to Auto defrost some food



1. Place the frozen food in the oven.
Press the **Auto Defrost**( ) button.



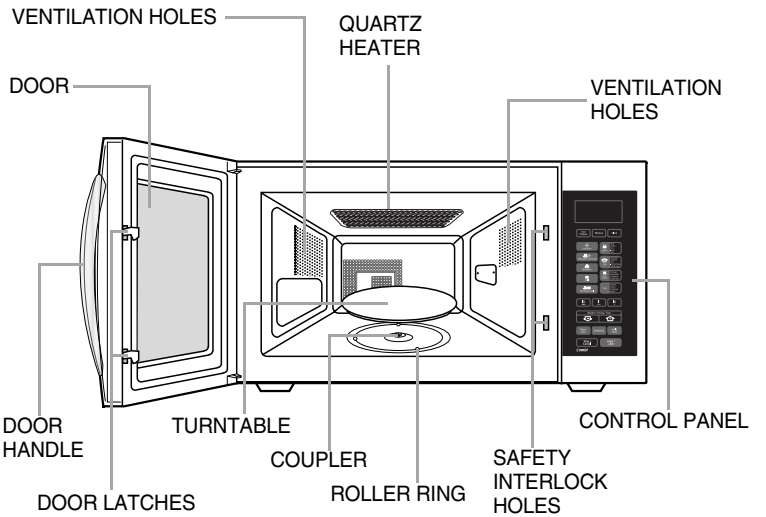
2. Select the food category by pressing the **Auto Defrost**( ) button, until the desired food category is selected.



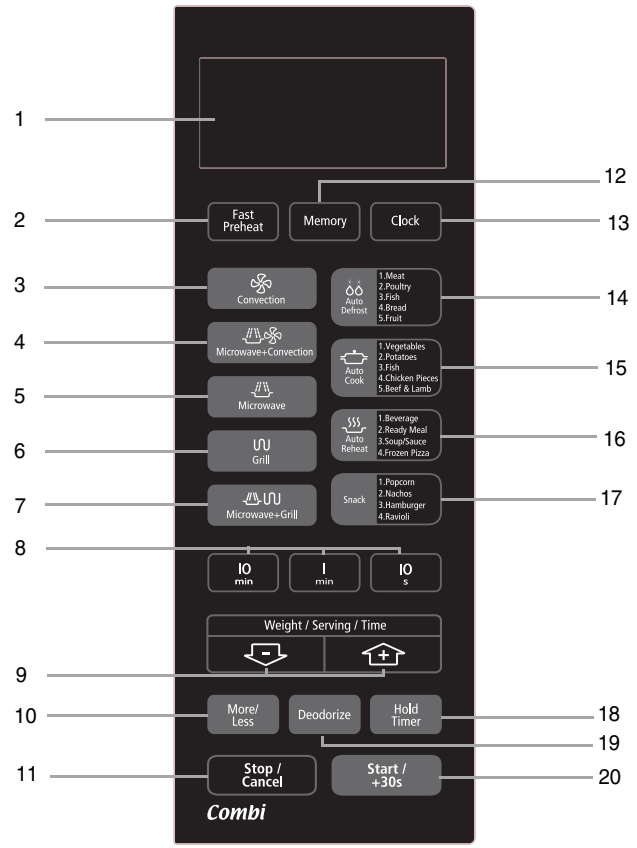
3. Select the weight by pressing the (+) and (–) buttons as required.

4. Press **Start** button.
Result: Defrosting starts
- When cooking has finished, the oven will beep and flash "0" four times. The oven will then beep one time per minute.

Oven



Control Panel



1. DISPLAY
2. AUTO FAST PREHEAT SELECTION BUTTON
3. CONVECTION BUTTON
4. MICROWAVE+CONVECTION BUTTON
5. MICROWAVE BUTTON
6. GRILL BUTTON
7. MICROWAVE+GRILL BUTTON
8. TIME SETTING
9. UP/ DOWN BUTTON (Weight/ Serving/Time)
10. MORE/LESS BUTTON
11. STOP / CANCEL BUTTON
12. MEMORY BUTTON
13. CLOCK SETTING BUTTON
14. AUTO DEFROST FEATURE BUTTON
15. AUTO COOK FEATURE BUTTON
16. AUTO REHEAT FEATURE BUTTON
17. SNACK FEATURE BUTTON
18. HOLD TIMER BUTTON
19. DEODORIZE BUTTON
20. START / +30S BUTTON

Accessories

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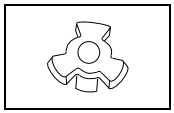
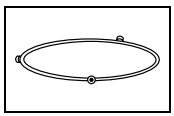
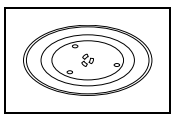
Depending on the model that you have purchased, you are supplied with several accessories that can be used in a variety of ways.



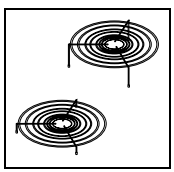
1. **Coupler**, to be placed correctly over the motor shaft in the base of the oven.
   Purpose: The coupler rotates the turntable.



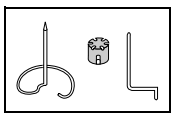
2. **Roller ring**, to be placed in the center of the oven.
   Purpose: The roller ring supports the turntable.



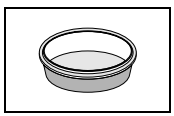
3. **Turntable**, to be placed on the roller ring with the center fitting on to the coupler.
   Purpose: The turntable serves as the main cooking surface; it can be easily removed for cleaning.



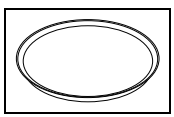
4. **Metal racks** (High rack, Low rack), to be placed on the turntable.
   Purpose: The metal racks can be used to cook two dishes at the same time. A small dish may be placed on the turntable and a second dish on the rack. **The metal racks can be used in grill, convection and combination cooking**.



5. **Roasting spit, Coupler barbecue and Skewer**, to be placed in the glass bowl.
   Purpose: The roasting spit is a convenient way of barbecuing a chicken, as the meat does not have to be turned over. It can be used for grill combination cooking.



6. **Glass bowl**, to be placed on the turntable.
   Purpose: Roasting stand is placed on the glass bowl.



7. **Crusty plate**, to be placed on the turntable.
   Purpose: The crust plate is used to brown food better in the microwave or grill combination cooking modes and to keep pastry and pizza dough crisp.

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Using this Instruction Booklet

Thank you for purchasing a SAMSUNG microwave oven. Your Owner's Instructions contains much valuable information on cooking with your new microwave oven:

- ***Safety precautions***
- ***Accessories and cookware***
- ***Useful cooking tips***

Inside the cover you will find a quick look-up guide explaining three basic cooking operations:

- ***Cooking (microwave mode)***
- ***Defrosting***
- ***Adding an extra 30 seconds, if the dish is inadequately cooked or requires additional reheating***

At the end of the booklet you will find illustrations of the oven, and more importantly the control panel, so that you can find the buttons more easily. The illustrations in the step-by-step procedures use two different symbols.

Important

Note

PRECAUTIONS TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY

Failure to observe the following safety precautions may result in harmful exposure to microwave energy.

(a) Under no circumstances should any attempt be made to operate the oven with the door open or to tamper with the safety interlocks (door latches) or to insert anything into the safety interlock holes.

(b) Do not place any object between the oven door and front face or allow food or cleaner residues to accumulate on sealing surfaces. Ensure that the door and door sealing surfaces are kept clean by wiping after use first with a damp cloth and then with a soft dry cloth.

(c) Do not operate the oven if it is damaged until it has been repaired by a qualified microwave service technician trained by the manufacturer. It is particularly important that the oven door closes properly and that there is no damage to the:
(1) Door (bent)
(2) Door hinges (broken or loose)
(3) door seals and sealing surfaces

(d) The oven should not be adjusted or repaired by anyone other than a properly qualified microwave service technician trained by the manufacturer.

Safety Precautions

IMPORTANT SAFETY INSTRUCTIONS.
READ CAREFULLY AND KEEP FOR FUTURE REFERENCE.
Before cooking food or liquids in your microwave oven, please check that the following safety precautions are taken.

- Only use utensils that are suitable for use in microwave ovens;
  DO NOT use any metallic containers, Dinnerware with gold or silver trimmings, Skewers, forks, etc.
  Remove wire twist ties from paper or plastic bags.
  Reason: Electric arcing or sparking may occur and may damage the oven.
- When heating food in plastic or paper containers, keep an eye on the oven due to the possibility of ignition;
  Do not use your microwave oven to dry newspapers or clothes
- If smoke is observed, switch off or unplug the appliance and keep the door closed in order to stifle any flames;
- Microwave heating of beverages can result in delayed eruptive boiling, therefore care must be taken when handling the container; To prevent this situation
  ALWAYS allow a standing time of at least 20 seconds after the oven has been switched off so that the temperature can equalize.
  Stir during heating, if necessary, and ALWAYS stir after heating.
  In the event of scalding, follow these FIRST AID instructions:
  * Immerse the scalded area in cold water for at least 10 minutes.
  * Cover with a clean, dry dressing.
  * Do not apply any creams, oils or lotions.
- **NEVER** fill the container to the top and choose a container that is wider at the top than at the bottom to prevent the liquid from boiling over. Bottles with narrow necks may also explode if overheated.
  NEVER heat a babys bottle with the teat on, as the bottle may explode if overheated.
- The contents of feeding bottles and baby food jars shall be stirred or shaken and the temperature checked before consumption, in order to avoid burns;
- Eggs in their shell and whole hard-boiled eggs should not be heated in microwave ovens since they may explode, even after microwave heating has ended;
  Also do not heat airtight or vacuum-sealed bottles, jars, containers, nuts in shells, tomatoes etc.
- The oven should be cleaned regularly and any food deposits removed;
- Failure to maintain the oven in a clean condition could lead to deterioration of the surface that could adversely affect the life of the appliance and possibly result in a hazardous situation;
- **DO NOT** cover the ventilation slots with cloths or paper. They may catch fire as hot air is evacuated from the oven.
  The oven may overheat and automatically switch itself off. It will remain inoperable until it has cooled sufficiently.
- **ALWAYS** use oven gloves when removing a dish from the oven to avoid unintentional burn.
- **DO NOT** touch heating elements or interior oven walls until the oven be cooled down.

Safety Precautions (continued)

- Do not immerse the power cable or plug in water and keep the power cable away from heated surfaces.
  Do not operate this appliance if it has a damaged power cable or plug.
- Stand at arms length from the oven when opening the door.

Reason: The hot air or steam released may cause scalding.

- You may notice a Clicking sound during operation(especially when the oven is defrosting).

Reason: This sound is normal when the electrical power output is changing.

- **DO NOT** operate the microwave oven when it is empty. The power will be cut off automatically for safety. You can operate normally after letting it stand for over 30 minutes.
  It is best to leave a glass of water inside the oven at all times.The water will absorb the microwaves energy if the oven accidently started.

IMPORTANT

- Young children should **NEVER** be allowed to use or play with the microwave oven. Nor should they be left unattended near the microwave oven when it is in use. Items of interest to children should not be stored or hidden just above the oven.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.
- During use the appliance becomes hot. Care should be taken to avoid touching heating elements inside the oven.
- **Do not** use harsh abrasive cleaners or sharp metal scrapers to clean the oven door glass since they can scratch the surface, which may result in shattering of the glass.(If provided)

WARNING:
If the door or door seals are damaged, the oven must not be operated until it has been repaired by a competent person.

WARNING:
It is hazardous for anyone other than a comperent person to carry out any service or repair operation which involves the removal of a cover which gives protection against exposure to microwave energy.

WARNING:
Liquids and other foods must not be heated in sealed containers since they are liable to explode.

WARNING:
Only allow children to use the oven without supervision when adequate instructions have been given so that the child is able to use the oven in a safe way and understands the hazards of improper use.

WARNING:
When the appliance is operated in the combination mode, children should only use the oven under adult supervision due to the temperatures generated.

WARNING:
Accessible parts may become hot during use. Young children should be kept away.

- The microwave oven shall not be placed in a cabinet

☛ DO NOT operate the microwave oven without the coupler, roller ring and turntable.

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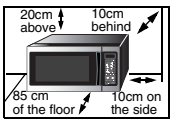
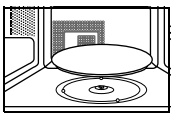
Installing Your Microwave Oven

Place the oven on a flat level surface 85cm above the floor. The surface should be strong enough to safety bear the weight of the oven.





1. When you install your oven, make sure there is adequate ventilation for your oven by leaving at least 10 cm (4 inches) of space behind and, on the sides of the oven and 20 cm (8 inches) of space above.

2. Remove all packing materials inside the oven.
   Install the roller ring and turntable.
   Check that the turntable rotates freely.

3. This microwave oven has to be positioned so that plug is accessible.

☛ If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer or its service agent.
For your personal safety, plug the cable into a 3-pin, 230 Volt, 50Hz, AC earthed socket. If the power cable of this appliance is damaged, it must be replaced by a special cable.

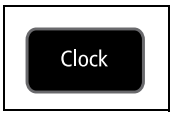
☛ Do not install the microwave oven in hot or damp surroundings like next to a traditional oven or radiator. The power supply specifications of the oven must be respected and any extension cable used must be of the same standard as the power cable supplied with the oven. Wipe the interior and the door seal with a damp cloth before using your microwave oven for the first time.

Setting the Time

Your microwave oven has an inbuilt clock. The time can be displayed in either the 12-hour or 24-hour notation. You must set the clock:

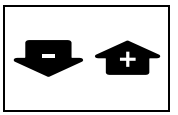
- ***When you first install your microwave oven***
- ***After a power failure***

✉ Do not forget to reset the clock when you switch to and from summer or winter time.

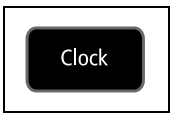


1.

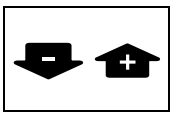
To display the time in the...	**Then press the Clock button...**
12-hour notation	Once
24-hour notation	Twice



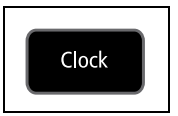
2. Press the (+) and (–) buttons.



3. Press the **Clock** button.



4. Press the (+) and (–) buttons to set the minute.



5. When the right time is displayed, press the **Clock** button to start the clock.
   Result: The time is displayed whenever you are not using the microwave oven.

Checking that Your Oven is Operating Correctly

The following simple procedure enables you to check that your oven is working correctly at all times. If you are in doubt, refer to the section entitled "What to Do if You are in Doubt or Have a Problem" on the page.

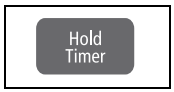
✉ The oven must be plugged into an appropriate wall socket. The turntable must be in position in the oven. If a power level other than the maximum (100% - 900 W) is used, the water takes longer to boil.

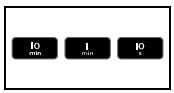
Open the oven door by pulling the handle on the right side of the door. Place a glass of water on the turntable. Close the door.

Press the **Start** button and set the time to 4 or 5 minutes, by pressing the **Start** button the appropriate number of times.
Result: The oven heats the water for 4 or 5 minutes. The water should then be boiling.

Setting a Standing Time

The Hold Time can be used to set a standing time automatically (without microwave cooking).





1. Press the **Hold Timer** button.
   Result: The following indication isdisplayed :
   ⧗ (Hold/Delay mode)
2. Set the grilling time by pressing the **10min,1min** and **10s** buttons .
3. Press **Start** button.
   Result: The oven beeps when the standing time is over.

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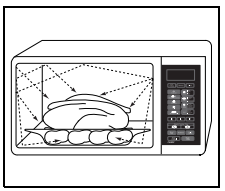
How a Microwave Oven Works

Microwaves are high-frequency electromagnetic waves; the energy released enables food to be cooked or reheated without changing either the form or the colour.
You can use your microwave oven to:

- ***Defrost***
- ***Reheat***
- ***Cook***

Cooking Principle



1. The microwaves generated by the magnetron reflected at cavity and are distributed uniformly as the food rotates on the turntable. The food is thus cooked evenly.
2. The microwaves are absorbed by the food up to a depth of about 1 inch (2.5 cm). Cooking then continues as the heat is dissipated within the food.
3. Cooking times vary according to the container used and the properties of the food:
   - Quantity and density
   - Water content
   - Initial temperature (refrigerated or not)

☛ As the centre of the food is cooked by heat dissipation, cooking continues even when you have taken the food out of the oven. Standing times specified in recipes and in this booklet must therefore be respected to ensure:

- Even cooking of the food right to the centre
- The same temperature throughout the food

What to Do if You are in Doubt or You have a Problem

Becoming familiar with a new appliance always takes a little time. If you have any of the problems listed below, try the solutions given. They may save you the time and inconvenience of an unnecessary service call.

◆ The following are normal occurrences.
- Condensation inside the oven
- Air flow around the door and outer casing
- Light reflection around the door and outer casing
- Steam escaping from around the door or vents

◆ The food is not cooked at all
- Have you set the timer correctly and pressed the **Start** button?
- Is the door closed?
- Have you overloaded the electric circuit and caused a fuse to blow or a breaker to be triggered.

◆ The food is either overcooked or undercooked
- Was the appropriate cooking length set for the type of food?
- Was an appropriate power level chosen?

◆ Sparking and cracking occur inside the oven (arcing)
- Have you used a dish with metal trimmings?
- Have you left a fork or other metal utensil inside the oven?
- Is aluminium foil too close to the inside walls?

◆ The oven causes interference with radios or televisions
- Slight interference may be observed on televisions or radios when the oven is operating. This is normal.
  * Solution: Install the oven away from televisions, radios and aerials.
- If interference is detected by the oven's microprocessor, the display may be reset.
  * Solution: Disconnect the power plug and reconnect it. Reset the time.

◆ "E3" message indicates
- The "E3" message is automatically activated prior to the microwave oven overheating. Should the "E3" message be activated, then depress the "Stop/Cancel" key to utilize the initialization mode.

If the above guidelines do not enable you to solve the problem, then contact your local Samsung customer service centre.
Please have the following information read;

- ***The model and serial numbers, normally printed on the rear of the oven***
- ***Your warranty details***
- ***A clear description of the problem***

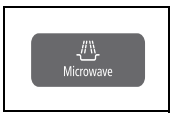
Then contact your local dealer or SAMSUNG aftersales service.

Cooking/Reheating

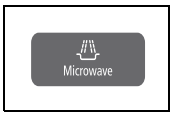
The following procedure explains how to cook or reheat food.

☛ ALWAYS check your cooking settings before leaving the oven unattended.

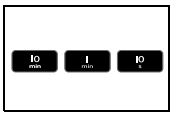
Open the door. Place the food in the centre of the turntable. Close the door. Never switch the microwave oven on when it is empty.



1. Press the **Microwave**( ) button.
Result: The following indications are displayed:
| (one-stage cooking)
(microwave mode)



2. Select the appropriate power level by pressing the **Microwave**( ) button again until the corresponding output power is displayed. Refer to the power level table below for further details.



3. Set the cooking time by pressing the **10min, 1min** and **10s** buttons.
Result: The cooking time is displayed.

4. Press the **Start** button.
Result: The oven light comes on and the turntable starts rotating. Cooking starts and when it has finished:
- The oven will beep and flash “0” four times. The oven will then beep one time per minute.

✉ If you would like to know the current Power Level of the oven cavity, press **Microwave**( ) button once. If you would like to change the power level during cooking, press the **Microwave**( ) button twice or more times to select the desired power level.

Quick Start:

✉ If you wish to heat a dish for a short period of time at maximum power (900W), you can also simply press the **Start** button once for each 30 seconds of cooking time. The oven starts immediately.

Power Levels and Time Variations

The power level function enables you to adapt the amount of energy dissipated and thus the time required to cook or reheat your food, according to its type and quantity. You can choose between six power levels.

Power Level	Percentage	Output
HIGH	100 %	900 W
MEDIUM HIGH	67 %	600 W
MEDIUM	50 %	450 W
MEDIUM LOW	33 %	300 W
DEFROST	20 %	180 W
LOW	11 %	100 W

The cooking times given in recipes and in this booklet correspond to the specific power level indicated.

If you select a...	Then the cooking time must be...
Higher power level	Decreased
Lower power level	Increased

Stopping the Cooking

You can stop cooking at any time so that you can:
- ***Check the food***
- ***Turn the food over or stir it***
- ***Leave it to stand***

To stop the cooking...	Then...
Temporarily	Open the door. Result: Cooking stops. To resume cooking, close the door again and press the **Start** button.
Completely	Press the **Stop** button. Result: Cooking stops. If you wish to cancel the cooking settings, press the **Stop** button again.

EN

Adjusting the Cooking Time

You can increase the cooking time by pressing +30s button once for each 30seconds to be added.

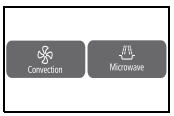
- ***Check how cooking is progressing at any time simply by opening the door***
- ***Increase the remaining cooking time***

To increase the cooking time of your food, press the **Start** button once for each 30 seconds that you wish to add.

- Example: To add three minutes, press the **Start** button six times.

Selection and Change of Weight Unit

The weight unit of this MWO is basically set in "Grams".



1. If you want to change the weight unit to "**Pounds**", Press the **Convection**( ) and **Microwave**( ) buttons at the same time for about one second.
   Result: The letters "**Oz**" will appear in the display panel and blink three times.
   This means weight unit is set in "**Pounds**".

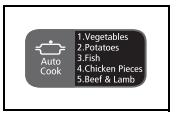
2. To set weight unit back to "**Grams**", Press the **Convection**( ) and **Microwave**( ) buttons at the same time for about one second.
   Result: The letter "**g**" will appear in the display panel and blink three times.
   This means weight unit is set in "**Grams**".

Using the Auto Cook Feature

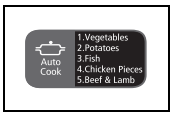
The five Auto Cook( ) features include/provide pre-programmed cooking times. You do not need to set either the cooking times or the power level.
You can adjust the size of the serving by pressing the (+) and (–) buttons.

☛ Use only recipients that are microwave-safe.

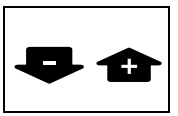
Open the door. Place the food in the centre of the turntable. Close the door.



1. Press the **Auto Cook**( ) button.



2. Select the type of food that you are cooking by pressing the **Auto Cook**( ) button. Refer to the table on the following page for a description of the various pre-programmed settings.



3. Select the size of the serving by pressing the (+) and (–) buttons.

4. Increase or decrease the cooking time, if necessary, by pressing the **More/Less** buttons respectively.

5. Press the **Start** button.
   Result: The food is cooked according to the pre-programmed setting selected.
   ◆ When cooking has finished, the oven will beep and flash “0” four times. The oven will then beep one time per minute.

Using the Auto Cook Feature(continued)

The following table presents the various Auto Cook Programmes, quantities, standing times and appropriate recommendations.
Programmes no. 1 and 2 are running with microwave energy only.
Programmes no. 3 and 4 are running with a combination of microwaves and grill.
Programmes no. 5 is running with a combination of microwaves and convection.

Code	Food	Serving Size	Standing Time	Recommendations
1.	**Fresh Vegetables**	200-250 g 300-350 g 400-450 g 500-550 g 600-650 g 700-750 g	3 min.	Weigh the vegetables after washing, cleaning and cutting into similar size. Put them into a glass bowl with lid. Add 30 ml (2 tablespoons) water when cooking for 200-250 g, add 45 ml (3 tablespoons) for 300-450 g and add 60-75 ml (4-5 tables-poons) for 500-750 g.Stir after cooking. When cooking higher quantities stir once during cooking.
2.	**Peeled Potatoes**	300-350 g 400-450 g 500-550 g 600-650 g 700-750 g	3 min.	Weigh the potatoes after peeling, washing and cutting into a similar size. Put them into a glass bowl with lid. Add 45 ml (3tablesp-oons) water when cooking 300-450g, add 60ml (4 tablespoons) for cooking 500-750 g.
3.	**Roast Fish**	200-300 g (1 fish) 400-500 g (1-2 fish) 600-700 g (2 fish)	3 min.	Brush the chicken pieces with oil and spice them with pepper, salt and paprika. Put them in a circle on the high rack with the skin-side down. Turn over, as soon as the beep sounds.
4.	**Chicken Pieces**	200-300 g (1pc) 400-500 g (2pcs) 600-700 g (3pcs)	3 min.	Brush the chicken pieces with oil and spice them with pepper, salt and paprika. Put them in a circle on the high rack with the skin-side down. Turn over, as soon as the beep sounds.
5.	**Roast Beef / Roast Lamb**	900-1000 g 1200-1300 g 1400-1500 g	10-15 min.	Brush the beef/lamb with oil and spices (pepper only, salt should be added after roasting). Put it on the low rack with the fat-side down. Turn over, when the oven beeps. After roasting and during standing time it should be wrapped in aluminium foil.

Using the Auto Reheat Feature

EN

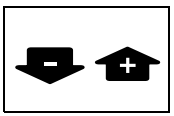
The four Auto Reheat( ) features provide four pre-programmed cooking times. You do not need to set either the cooking times or the power level.
You can adjust the size of the serving by pressing the (+) and (–) buttons.

☛ Use only recipients that are microwave-safe.

Open the door. Place the food in the centre of the turntable. Close the door.

1. Press the **Auto Reheat** ( ) button.

2. Select the type of food that you are cooking by pressing the **Auto Reheat** ( ) button. Refer to the table on the following page for a description of the various pre-programmed settings.



3. Select the size of the serving by pressing the (+) and (–) buttons.

4. Increase or decrease the cooking time, if necessary, by pressing the **More/Less** buttons respectively.

5. Press the **Start** button.
Result: The food is cooked according to the pre-programmed setting selected.
- ◆ When cooking has finished, the oven will beep and flash "0" four times. The oven will then beep one time per minute.

The following table presents the various Auto Reheat Programmes, quantities, standing times and appropriate recommendations. Programmes no. 1,2 and 3 are running with microwave energy only. Programmes no. 4 is running with a combination of microwaves and convection.

Code	Food	Serving Size	Standing Time	Recommendations
1.	**Beverage** Coffee, milk, tea, water (room-temperature)	250 ml (1 mug) 500 ml (2mugs)	1-2 min.	Pour the liquid into ceramic mugs and reheat uncovered. Place one mug in the centre, 2 mugs opposite to each other. Leave them to stand in the microwave oven. Stir drinks before and after standing time. Be careful while taking the mugs out (see safety instructions for liquids).
2.	**Ready - Meal** (chilled)	300 - 350 g 400 - 450 g 500 - 550 g	3 min.	Put on a ceramic plate and cover with microwave cling film. This programme is suitable for meals consisting of 3 components (e.g. meat with sauce, vegetables and a side dish like potatoes, rice or pasta).
3.	**Soup/Sauce** (chilled)	200 - 250 ml 300 - 350 ml 400 - 450 ml 500 - 550 ml 600 - 650 ml 700 - 750 ml	2-3 min.	Pour into a deep ceramic soup plate or bowl and cover with plastic lid during heating. Stir the soup, as soon as the oven beeps (oven keeps operating and is stopped, when you open the door). Stir carefully before and after standing time.
4.	**Frozen Pizza**	300 g 400 g 500 g	-	Place one frozen pizza (-18°C) on the low rack.

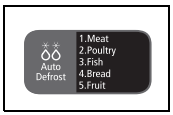
Using the Auto Defrost Feature

EN

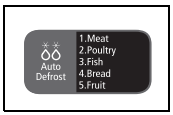
The Auto Defrost ( ) feature enables you to defrost meat, poultry, fish, bread , cake and fruit. The defrost time and power level are set automatically. You simply select the programme and the weight.

☛ Use only containers that are microwave-safe.

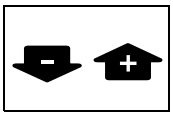
Open the door. Place the frozen food on a ceramic in the centre of the turntable. Close the door.



1. Press the **Auto Defrost** ( ) button.



2. Select the type of food that you are cooking by pressing the **Auto Defrost** ( ) button. Refer to the table on the following page for a description of the various pre-programmed settings.



3. Select the food weight by pressing the (+) and (–) buttons.

4. Press **Start** button.
Result:
- Defrosting begins.
- The oven beeps through defrosting to remind you to turn the food over.

5. Press the **Start** again to finish defrosting.
Result: When cooking has finished, the oven will beep and flash “0” four times. The oven will then beep one time per minute.

☛ You can also defrost food manually. To do so, select the microwave function with a power level of 180 W.

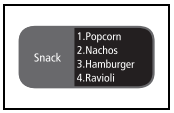
The following table presents the various Auto Defrost programmes, quantities, standing times and appropriate recommendations. Remove all kind of package material before defrosting.
Place meat, poultry and fish on a flat glass plate or on a ceramic plate, arrange bread and cake on kitchen paper.

Code	Food	Serving Size	Standing Time	Recommendations
1.	**Meat**	200-2000g	20-90 min.	Shield the edges with aluminium foil. Turn the meat over, when the oven beeps. This programme is suitable for beef, lamb, pork, steaks, chops, minced meat.
2.	**Poultry**	200-2000g	20-90 min.	Shield the leg and wing tips with aluminium foil. Turn the poultry over, when the oven beeps. This programme is suitable for whole chicken as well as for chicken portions.
3.	**Fish**	200-2000g	20-80 min.	Shield the tail of a whole fish with aluminium foil. Turn the fish over, when the oven beeps. This programme is suitable for whole fishes as well as for fish fillets.
4.	**Bread / Cake**	125-1000g	10-60 min.	Put bread horizontally on a piece of kitchen paper and turn over, as soon as the oven beeps. Place cake on a ceramic plate and if possible, turn over, as soon as the oven beeps. (Oven keeps operating and is stopped, when you open the door.) This programme is suitable for all kinds of bread, sliced or whole, as well as for bread rolls and baguettes. Arrange bread rolls in a circle. This programme is suitable for all kinds of yeast cake, biscuit, cheese cake and puff pastry. It is not suitable for short/crust pastry, fruit and cream cakes as well as for cake with chocolate topping.
5.	**Fruit**	100-600g	5-20 min.	Spread fruits evenly into a flat glass dish. This programme is suitable for all kind of fruits.

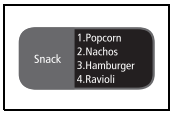
Using the Snack Feature

EN

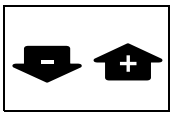
With the Snack feature, the cooking time is set automatically. You can adjust the number of servings by pressing the(+) and (–) button. First, place the food in the centre of the turntable on rack and close the door.



1. Press the **Snack** button.



2. Select the type of food that you are cooking by pressing the **Snack** button. Refer to the table on the following page for a description of the various pre-programmed settings.



3. Select the food weight by pressing the (+) and (–) buttons.

4. Increase or decrease the cooking time, if necessary, by pressing the **More/Less** buttons respectively.

5. Press **Start** button.
Result: The food is cooked according to the auto-setting selected.
- ◆ When cooking has finished, the oven will beep and flash “0” four times. The oven will then beep one time per minute.

The following table presents Auto Programmes for types of food and snacks which are favoured by children and for trendy finger food. It contains its quantities, standing times and appropriate recommendations.
Programmes are running with microwave energy only.

Code	Food	Serving Size	Standing Time	Recommendations
1	Popcorn	100 g	-	Use special popcorn product for preparing in microwave oven. Follow the instructions of food manufacturer and put the bag in the centre of turntable. During this programme corn will pop and the bag will increase in volume. Be careful when taking out and opening the hot bag.
2	Nachos	125 g	-	Put nachos (tortilla chips) on a flat ceramic plate. Put 50g grated cheddar cheese and spices on top. Place on turntable.
3	Hamburger (chilled)	150 g (1pc) 300 g (2pcs)	1-2 min.	Put hamburger (bread roll with slice of beef) or cheeseburger on kitchen paper. Put one hamburger in the centre of turntable, put two hamburgers opposite to each other on turntable. After reheating garnish with lettuce, tomato slice, dressing and spices.
4	Mini Ravioli (chilled)	200-250 g 300-350 g	3 min.	Put chilled ready mini ravioli in a microwave proof plastic dish in the centre of turntable. Pierce film of ready product or cover plastic dish with microwave cling film. Stir carefully before and after standing time. This programme is suitable for ravioli, as well as for noodles in sauce.

Using a Crusty Plate

EN

Normally when cooking food in just a microwave oven, or through the microwave mode in grill/convection ovens, foods that are made with pastries normally become soggy. Using the Samsung Crusty plate helps maintain the crispiness of your food

The crusty plate can also be used for bacon, eggs, sausages, etc.

☛ Before using the crusty plate, preheat it by selecting the combination mode for 3 to 5 minutes:
- Combination of convection (250°C) and microwaves (600 W power level) or
- Combination of grill and microwaves (600 W power level)
- See page 19 and page 20 respectively.

1. Preheat the crusty plate, as described above.
- Use oven gloves at all times as the crusty plate will become very hot.

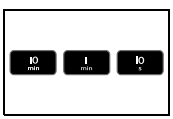
2. Brush the plate with oil if you are cooking food, such as bacon and eggs, in order to brown the food nicely.

3. Place the food on the crusty plate.
- Do not place any recipients on the crusty plate that are not heat-resistant (plastic bowls for example).

4. Place the crusty plate on the turntable in the microwave oven.
- Never place the crusty plate in the oven without the turntable.

1. Press the **Microwave + Grill**( ) button.
Result: The following indications are displayed:
| (one - stage cooking)
(microwave & grill combi mode)

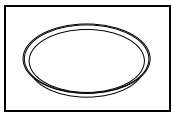
2. Select the appropriate power level by pressing the **Microwave + Grill**( ) button until the corresponding output power is displayed (300-600W).
- You cannot set the temperature of the grill.



3. Set the cooking time by pressing the **10min**, **1min** and **10s** buttons.
- The maximum cooking time is 60 minutes.

4. Press the **Start** button.
Result:
- ◆ Combination cooking starts.
- ◆ When cooking has finished, the oven will beep and flash "0" four times. The oven will then beep one time per minute.

How to clean the crusty plate



The best way to clean the crusty plate is to wash it with hot water and detergent and then rinse if off with clean water. Do not use a scrubbing brush or a hard sponge otherwise the top layer will be damaged.

☛ As the crusty plate has a Teflon layer, if you use it incorrectly, it can be damaged.
- Never cut the food on the plate. Remove the food from the plate prior to cutting.
- Turn the food over preferably with a plastic or wooden spatula.

Crusty Plate Setting

We recommend to preheat the crusty plate directly on the turntable.
Preheat the crusty plate with the 600W + Grill-function and follow the times and instructions in the table.

Food/ Portion	Preheat Time (min.)	Power	Cooking Time (min.)	Instructions
Bacon 4-6 slices (80 g)	3	600 W + Grill	3-4	Preheat crusty plate. Put slices side by side on crusty plate. Put crusty plate on high rack.
Omelette 300 g	3-4	450 W + Grill	3½-4½	Preheat crusty plate. Beat 3 eggs, add 2 tbsp. milk, herbs and spices. Cut one tomato in cubes. Preheat crusty plate, put tomato pieces on plate, add beaten eggs and 50g grated cheese evenly. Set plate on high rack.
Grilled Vegetables 250 g	3-4	450 W + Grill	7½-8½	Preheat crusty plate. Put fresh sliced vegetables on plate e.g. pieces of pepper, cherry tomatoes, courgette slices and mushrooms. Brush with oil and spices. Set crusty plate on high rack.
Oven Chips (frozen) 300 g	3-4	450 W + Grill	12-14	Preheat crusty plate. Distribute oven chips on crusty plate. Put crusty plate on high rack. Turn over after half of cooking time.
Chicken Nuggets (frozen) 250 g	4	600 W + Grill	6-7	Preheat crusty plate. Brush plate with 1 tbsp. oil. Put chicken nuggets on crusty plate. Put crusty plate on high rack. Turn over after 4-5 minutes.

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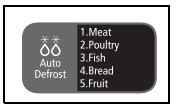
Multistage Cooking

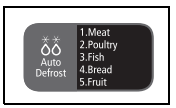
Your microwave oven can be programmed to cook food in up to four stages (the Convection , Microwave+Convection and Fast Preheat mode can not be used in Multistage cooking). Example: You wish to Auto defrost food and cook it without having to reset the oven after each stage. You can thus defrost and cook a 1.8 kg chicken in four stages:

- ***Defrosting***
- ***Microwave cooking for 30 minutes***
- ***Grill for 15 minutes***

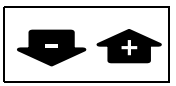
☛ Defrosting and standing must be the first two stages. Combination and Grill can only be used once during the remaining two stages, However microwave can be used twice(at two different power levels).



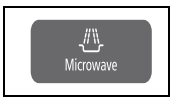
1. Press the **Auto Defrost** (⁂) button..



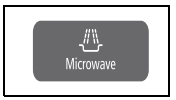
2. Select the type of food that you are cooking by pressing the **Auto Defrost** (⁂) button.



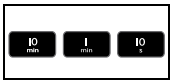
3. Set the weight by pressing the (**+**) and (**–**) buttons the appropriate number of times (1800 g in the example).



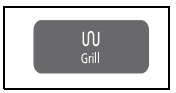
4. Press the **Microwave** ( ) button.



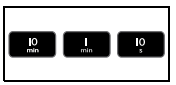
5. Set the microwave power level by pressing the **Microwave** ( ) button to select the appropriate Power Level (450W in the example).



6. Set the cooking time by **10min**, **1min**, and **10s** button. (30 minutes in the example)



7. Press the **Grill** ( ) button.



8. Pressing the**10min**, **1min**, and **10s** buttons appropriate number of times (15 minutes in the example).

9. Press **Start** button.
Result: Cooking starts:
- ◆ When cooking has finished, the oven will beep and flash “0” four times. The oven will then beep one time per minute.

Fast Preheating the Oven

For convection cooking, it is recommended that you preheat the oven to the appropriate temperature before placing the food in the oven. When the oven reaches the requested temperature, it is maintained for approximately 10 minutes; it is then switched off automatically. Check that the heating element is in the correct position for the type of cooking that you require.

1. Press the **Fast Preheat** button.
Result: The following indications are displayed:
250°C (temperature)

2. Press the **Fast Preheat** button one or more times to set the temperature.

3. Press the **Start** button.
Result: The oven is preheated to the requested temperature.
- ◆ Upon arrival at the preset temperature, the oven beeps 6 times and the temperature is kept for 10 minutes.
- ◆ After 10 minutes, the beeps 4 times and the operation stops.

✉ In case the inner temperature has reached the preset temperature, the beeps 6 times when temperature and the preset temperature is kept for 10 minutes.

✉ If you would like to know the current temperature of oven cavity, press **Fast Preheat** button.

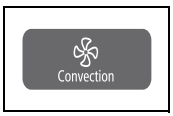
Cooking by Convection

The convection mode enables you to cook food in the same way as in a traditional oven. The microwave mode is not used. You can set the temperature, as required, in a range varying from 40°C to 250°C in eight preset levels. The maximum cooking time is 60 minutes.

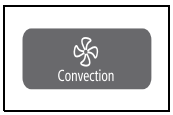
☛ If you wish to Fast Preheat the oven, see page 16.

- Always use oven gloves when touching the recipients in the oven, as they will be very hot.
- You can get better cooking and browning, if you use the low rack.

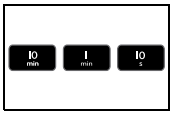
Check that the heating element is in the horizontal position and that the turntable is in position. Open the door and place the recipient on the low rack and set on turntable.



1. Press the **Convection** ( ) button.
Result: The following indications are displayed:
(convection mode)
250°C (temperature)



2. Press the **Convection** ( ) button once or more times to set the temperature.



3. Set the cooking time by pressing the **10min**, **1min** and **10s** button.

4. Press the **Start** button.
Result: Cooking starts:
◆ When cooking has finished, the oven will beep and flash “0” four times. The oven will then beep one time per minute.

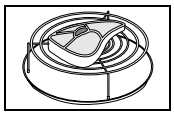
✉ You can check the temperature at any time by pressing the **Fast Preheat** button.

Grilling

The grill enables you to heat and brown food quickly, without using microwaves.

- ***Always use oven gloves when touching the recipients in the oven, as they will be very hot.***
- ***You can get better cooking and grilling results, if you use the high rack.***

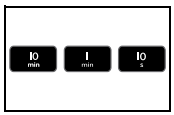
Check that the heating element is in the horizontal position, and that the appropriate rack is in position.



1. Open the door and place the food on the rack.

2. Press the **Grill** ( ) button.
Result: The following indications are displayed:
| (one-stage cooking)
(grill mode)

- You cannot set the temperature of the grill.



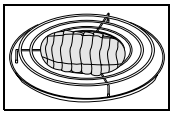
3. Set the grilling time by pressing the **10min**, **1min** and **10s** buttons.

- The maximum grilling time is 60 minutes.

4. Press the **Start** button.
Result: Grilling starts:
◆ When cooking has finished, the oven will beep and flash “0” four times. The oven will then beep one time per minute.

EN

Choosing the Accessories



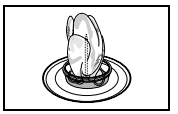
Traditional convection cooking does require cookware. You should, however, use only cookware that you would use in your normal oven.
Microwave-safe cantainers are not usually suitable for convection cooking; don't use plastic containers, dishes, paper cups, towels, etc.
If you wish to select a combined cooking mode (microwave and grill or convection), use only recipients that are microwave-safe and oven-proof. Metallic cookware or utensils may damage your oven.

☛ For further details on suitable cookware and utensils, refer to the Cookware Guide on page 22.

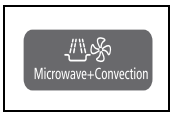
Spit-Roasting

The roasting spit is useful for barbecue cooking, as you do not need to turn the meat over. It can be used for combined microwave and Convection cooking.

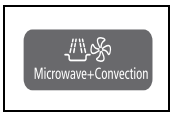
☛ Make sure that the weight of the meat is evenly distributed on the spit and that the spit rotates freely.
Always use oven gloves when touching the recipients in the oven, as they will be very hot.



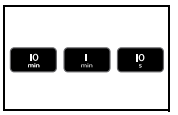
1. Push the roasting spit through the centre of the meat.
Example: Push the spit between the backbone and breast of a chicken.
Place the spit on its stand and place the stand onto the glass bowl and the glass bowl onto the turntable. To help brown the meat, brush it with cooking oil.



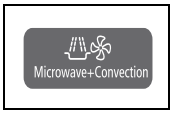
2. Press the **Microwave + Convection**( ) button.
Result: The following indications are displayed:
( ) (microwave & convection combi mode)
250°C (temperature)



3. Select the temperature by pressing the **Microwave + Convection**( ) button.



4. Set the cooking time by pressing the **10min**, **1min** and **10s** button.
- The maximum cooking time is 60 minutes.



5. Set the appropriate power level by pressing the **Microwave + Convection**( ) button until the corresponding output power is displayed (100-600W).

6. Press the **Start** button.
Result:
- Combination cooking starts.
- The oven is heated to the required temperature and then microwave cooking continues until the cooking time is over.
- When cooking has finished, the oven will beep and flash "0" four times. The oven will then beep one time per minute.

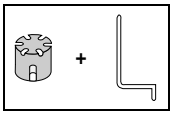
✉ When the meat has been fully cooked, carefully remove the spit, using oven gloves to protect your hands.

Using The Vertical Multi-Spit

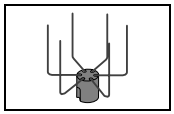
MULTI-SPIT FOR KEBAB

Using the multi-spit with 6 kebab skewers you can easily barbecue meat, poultry, fish, vegetables (like onions, peppers or courgettes) and fruit which have been cut into pieces.

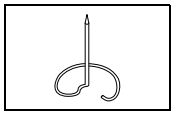
You can prepare the above food with the kebab skewers by using convection or combination mode.



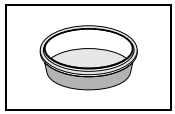
Coupler Barbecue, Skewer,



Multi-Spit



Roasting-Spit



Glass Bowl

USE OF THE MULTI-SPIT WITH KEBAB SKEWERS

1. For preparing kebabs with the multi-spit use the 6 skewers.
2. Put the same amount of food on each skewer.
3. Place the roasting- spit into the glass bowl and insert the multi-spit into it.
4. Put the glass bowl with the multi-spit in the centre of the turntable.

✉ Make sure that the grill heating element is in the right position at the back wall of the cavity and not at the top before starting the grilling process.

REMOVING THE MULTI-SPIT FROM THE OVEN AFTER GRILLING

1. Use oven gloves for taking for glass bowl with the multi-spit out of the oven, because it will be very hot.
2. Remove multi-spit out of the spit stand by using oven gloves as well.
3. Carefully remove the skewers and use a fork for removing the food pieces from the skewers.

✉ The multi--is not suitable for cleaning in the dishwasher. Therefore clean it with warm water and washing up liquid by hand. Remove the vertical multi-spit from the oven, after use.

Combining Microwaves and the Grill

EN

You can also combine microwave cooking with the grill, to cook quickly and brown at the same time.

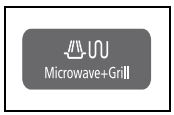
☛ ALWAYS use microwave-safe and oven-proof cookware. Glass or ceramic dishes are ideal as they allow the microwaves to penetrate the food evenly.

ALWAYS use oven gloves when touching the recipients in the oven, as they will be very hot.

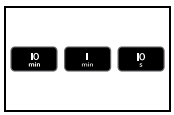
You can improve cooking and grilling, if you use the high rack.

Open the door. Place the food on the rack best suited to the type of food to be cooked. Place the rack on the turntable. Close the door.

1. Press the **Microwave + Grill**( ) button.
Result: The following indications are displayed:
| (one - stage cooking)
(microwave & grill combi mode)



2. Select the appropriate power level by pressing the **Microwave + Grill**( ) button until the corresponding output power is displayed (300-600W).
- You cannot set the temperature of the grill.



3. Set the cooking time by pressing the **10min**, **1min** and **10s** buttons.
- The maximum cooking time is 60 minutes.

4. Press the **Start** button.
Result:
- ◆ Combination cooking starts.
- ◆ When cooking has finished, the oven will beep and flash “0” four times. The oven will then beep one time per minute.

Combining Microwaves and Convection

EN

Combination cooking uses both microwave energy and convection heating. No preheating is required as the microwave energy is immediately available.

Many foods can be cooked in combination mode, particularly:

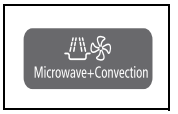
- ***Roast meats and poultry***
- ***Pies and cakes***
- ***Egg and cheese dishes***

☛ ALWAYS use microwave-safe and oven-proof cookware. Glass or ceramic dishes are ideal as they allow the microwaves to penetrate the food evenly.

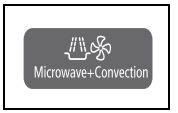
ALWAYS use oven gloves when touching the recipients in the oven, as they will be very hot.

You can get better cooking and browning, if you use the low rack.

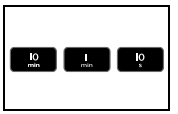
Open the door . Place the food on the turntable or on the low rack which should then be placed on the turntable. Close the door. The heating element must be in the horizontal position.



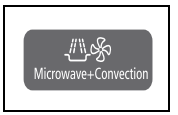
1. Press the **Microwave + Convection**( ) button.
   Result: The following indications are displayed:
   (microwave & convection combi mode)
   250°C (temperature)



2. Select the temperature by pressing the **Microwave + Convection**( ) button.



3. Set the cooking time by pressing the **10min**, **1min** and **10s** button.
   - The maximum cooking time is 60 minutes.



4. Set the appropriate power level by pressing the **Microwave + Convection**( ) button until the corresponding output power is displayed (100-600W).

5. Press the **Start** button.
   Result:
   - ◆ Combination cooking starts.
   - ◆ The oven is heated to the required temperature and then microwave cooking continues until the cooking time is over.
   - ◆ When cooking has finished, the oven will beep and flash “0” four times. The oven will then beep one time per minute.

✉ If you would like to know the current temperature of the oven cavity, press the **Fast Preheat** button.

Using the Deodorize Feature

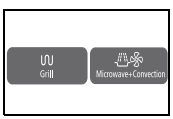
Use this feature after cooking odorous food or when there is a lot of smoke in the oven interior.
First clean the oven interior.

Press the **Deodorize** button after you have finished cleaning. you will hear four beeps.

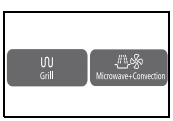
- ✉ The deodorization time has been specified as 5 minutes. It increases by 30 seconds whenever the +30s button is pressed.
- ✉ You can also adjust **Deodorize** time by pressing the +30s button.
- ✉ The maximum deodorization time is 60 minutes.

Safety-locking Your Microwave Oven

Your microwave oven is fitted with a special Child Safety programme, which enables the oven to be "locked" so that children or anyone unfamiliar with it cannot operate it accidentally.
The oven can be locked at any time.



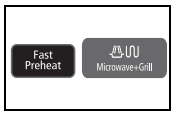
1. Press the **Grill**(⎍) and **Microwave + Convection**( ) buttons at the same time(about three second).
   Result:
   - ◆ The oven is locked.
   - ◆ The follow indication is display "**L**".



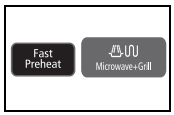
2. To unlock the oven, press the **Grill**(⎍) and **Microwave + Convection**( ) buttons again at the same time (about three second).
   Result: The oven can be used normally.

Switching the Beeper Off

You can switch the beeper off whenever you want.



1. Press the **Fast Preheat** and **Microwave Grill**( ) buttons at the same time (about one second).
   Result: The oven does not beep to indicate the end of a function.



2. To switch the beeper back on, press the **Fast Preheat** and **Microwave Grill**( ) buttons again at the same time (about one second).
   Result: The oven operates normally.

Using the Memory Cook Feature

If you often cook or reheat the same types of dishes, you can store the cooking times and power levels in the oven's memory, so that you do not have to reset them each other.

Storing the Settings

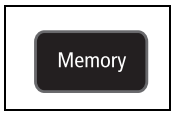
1. | To programme the... | Then press **MEMORY** button. |
   |---|---|
   | Setting | Once |
   | Resetting | Twice |

2. Set your cooking programme as usual (MW, Grill, Convection, Combi)

3. Press the **Start** button.
   Result: Your settings are now stored in the oven's memory.

Using the Settings

First, place the food in the centre of the turntable



1. Press **MEMORY** button.

2. Press the **Start** button.
   Result: The food is cooked as requested.

Cookware Guide

EN

To cook food in the microwave oven, the microwaves must be able to penetrate the food, without being reflected or absorbed by the dish used. Care must therefore be taken when choosing the cookware. If the cookware is marked microwave-safe, you do not need to worry. The following table lists various types of cookware and indicates whether and how they should be used in a microwave oven.

Cookware	Microwave-Safe	Comments
Aluminium foil	✓✗	Can be used in small quantities to protect areas against overcooking. Arcing can occur if the foil is too close to the oven wall or if too much foil is used.
Crusty plate	✓	Do not preheat for more than 8minutes.
China and earthenware	✓	Porcelain, pottery, glazed earthenware and bone china are usually suitable, unless deco-rated with a metal trim.
Disposable polyester cardboard dishes	✓	Some frozen foods are packaged in these dishes.
Fast-food packaging		
• Polystyrene cups containers	✓	Can be used to warm food. Overheating may cause the polystyrene to melt.
• Paper bags or newspaper	✗	May catch fire.
• Recycled paper or metal trims	✗	May cause arcing.
Glassware		
• Oven-to-table ware	✓	Can be used, unless decorated with a metal trim.
• Fine glassware	✓	Can be used to warm foods or liquids. Delicate glass may break or crack if heated suddenly.
• Glass jars	✓	Must remove the lid. Suitable for warming only.
Metal		
• Dishes	✗	May cause arcing or fire.
• Freezer bag twist ties	✗	
Paper		
• Plates, cups, napkins and Kitchen paper	✓	For short cooking times and warming. Also to absorb excess moisture.
• Recycled paper	✗	May cause arcing.
Plastic		
• Containers	✓	Particularly if heat-resistant thermoplastic. Some other plastics may warp or discolour at high temperatures. Do not use Melamine plas-tic.
• Cling film	✓	Can be used to retain moisture. Should not touch the food. Take care when removing the film as hot steam will escape.
• Freezer bags	✓✗	Only if boilable or oven-proof. Should not be airtight. Prick with a fork, if necessary.
Wax or grease-proof paper	✓	Can be used to retain moisture and prevent spattering.

✓ :Recommended
✓✗:Use Caution
✗ :Unsafe

Cooking Guide

EN

MICROWAVES

Microwave energy actually penetrates food, attracted and absorbed by its water, fat and sugar content.
The microwaves cause the molecules in the food to move rapidly. The rapid movement of these molecules creates friction and the resulting heat cooks the food.

COOKING

Cookware for microwave cooking:
Cookware must allow microwave energy to pass through it for maximum efficiency. Microwaves are reflected by metal, such as stainless steel, aluminium and copper, but they can penetrate through ceramic, glass, porcelain and plastic as well as paper and wood. So food must never be cooked in metal containers.

Food suitable for microwave cooking:
Many kinds of food are suitable for microwave cooking, including fresh or frozen vegetables, fruit, pasta, rice, grains, beans, fish, and meat. Sauces, custard, soups, steamed puddings, preserves, and chutneys can also be cooked in a microwave oven. Generally speaking, microwave cooking is ideal for any food that would normally be prepared on a hob. Melting butter or chocolate, for example (see the chapter with tips, techniques and hints).

Covering during cooking
To cover the food during cooking is very important, as the evaporated water rises as steam and contributes to cooking process. Food can be covered in different ways: e.g. with a ceramic plate, plastic cover or microwave suitable cling film.

Standing times
After cooking is over food the standing time is important to allow the temperature to even out within the food.

Cooking Guide for rice and pasta

Rice: Use a large glass pyrex bowl with lid – rice doubles in volume during cooking. Cook covered.
After the cooking time is over, stir before standing time and salt or add herbs and butter.
Remark: the rice may not have absorbed all water after the cooking time is finished.

Pasta: Use a large glass pyrex bowl. Add boiling water, a pinch of salt and stir well. Cook uncovered.
Stir occasionally during and after cooking. Cover during standing time and drain thoroughly afterwards.

Food	Portion	Power	Time (min.)	Standing Time(min.)	Instructions
White Rice (parboiled)	250g	900W	15-16	5	Add 500 ml cold water.
Brown Rice (parboiled)	250g	900W	20-21	5	Add 500 ml cold water.
Pasta	250g	900W	10-11	5	Add 1000 ml hot water.

Cooking Guide for fresh vegetables

Use a suitable glass pyrex bowl with lid. Add 30-45 ml cold water (2-3 tbsp.) for every 250 g unless another water quantity is recommended – see table. Cook covered for the minimum time – see table. Continue cooking to get the result you prefer. Stir once during and once after cooking. Add salt, herbs or butter after cooking. Cover during a standing time of 3 minutes.

Hint: Cut the fresh vegetables into even sized pieces. The smaller they are cut, the quicker they will cook.

All fresh vegetables should be cooked using full microwave power (900W).

Food	Portion	Time (min.)	Standing Time (min.)	Instructions
Broccoli	250g	3½-4	3	Prepare even sized florets. Arrange the stems to the centre.
Carrots	250g	4-4½	3	Cut carrots into even sized slices.
Cauliflower	500g	7-7½	3	Prepare even sized florets. Cut big florets into halves. Arrange stems to the centre.
Courgettes	250g	3-3½	3	Cut courgettes into slices. Add 30 ml (2 tbsp.) water or a knob of butter. Cook until just tender.
Potatoes	500g	7-8	3	Weigh the peeled potatoes and cut them into similar sized halves or quarters.

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REHEATING

Your microwave oven will reheat food in a fraction of the time that conventional ovens and hobs normally take.
Use the power levels and reheating times in the following chart as a guide. The times in the chart consider liquids with a room temperature of about +18 to +20°C or a chilled food with a temperature of about +5 to +7°C.

Arranging and covering
Avoid reheating large items such as joint of meat - they tend to overcook and dry out before the centre is piping hot. Reheating small pieces will be more successful.

Power levels and stirring
Some foods can be reheated using 900 W power while others should be reheated using 600 W, 450 W or even 300 W.
Check the tables for guidance.
In general, it is better to reheat food using a lower power level, if the food is delicate, in large quantities, or if it is likely to heat up very quickly (mince pies, for example).
Stir well or turn food over during reheating for best results. When possible, stir again before serving.
Take particular care when heating liquids and baby foods. To prevent eruptive boiling of liquids and possible scalding, stir before, during and after heating. Keep them in the microwave oven during standing time. We recommend putting a plastic spoon or glass stick into the liquids. Avoid overheating (and therefore spoiling) the food. It is preferable to underestimate cooking time and add extra heating time, if necessary.

Heating and standing times
When reheating food for the first time, it is helpful to make a note of the time taken - for future reference.
Always make sure that the reheated food is piping hot throughout.
Allow food to stand for a short time after reheating - to let the temperature even out.
The recommended standing time after reheating is 2-4 minutes, unless another time is recommended in the chart.
Take particular care when heating liquids and baby food. See also the chapter with the safety precautions.

REHEATING LIQUIDS

Always allow a standing time of at least 20 seconds after the oven has been switched off to allow the temperature to even out. Stir during heating, if necessary, and ALWAYS stir after heating. To prevent eruptive boiling and possible scalding, you should put a spoon or glass stick into the beverages and stir before, during and after heating.

Reheating Liquids and Food

Use the power levels and times in this table as guide lines for reheating.

Food	Portion	Power	Time (min.)	Standing Time (min.)	Instructions
Drinks (coffee, tea and water)	250ml (1 mug) 500ml (2 mugs)	900W	1½-2 3-3½	1-2	Pour into ceramic mugs and reheat uncovered: 1 mug in the centre, 2 mugs opposite of each other. Keep in microwave oven during standing time and stir well.
Soup (chilled)	250 ml 450 ml	900W	2-2½ 3½-4	2-3	Pour into a deep ceramic plate or deep ceramic bowl. Cover with plastic lid. Stir well after reheating. Stir again before serving.
Stew (chilled)	350g	600W	4-5	2-3	Put stew in a deep ceramic plate. Cover with plastic lid. Stir occasionally during reheating and again before standing and serving.
Pasta with sauce (chilled)	350g	600W	3-4	3	Put pasta (e.g. spaghetti or egg noodles) on a flat ceramic plate. Cover with microwave cling film. Stir before serving.
Filled pasta with sauce (chilled)	350g	600W	4-5	3	Put filled pasta (e.g. ravioli, tortellini) in a deep ceramic plate. Cover with plastic lid. Stir occasionally during reheating and again before standing and serving.
Plated Meal (chilled)	350g 450g	600W	4-5 5-6	3	Plate a meal of 2-3 chilled components on a ceramic dish. Cover with microwave cling-film.

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GRILL

The grill-heating element is located underneath the ceiling of the cavity. It operates while the door is closed and the turntable is rotating. The turntable's rotation makes the food brown more evenly. Preheating the grill for 2-3 minutes will make the food brown more quickly.

Cookware for grilling:
Should be flameproof and may include metal. Do not use any type of plastic cookware, as it can melt.

Food suitable for grilling:
Chops, sausages, steaks, hamburgers, bacon and gammon rashers, thin fish portions, sandwiches and all kinds of toast with toppings.

IMPORTANT REMARK:
Please remember that food must be placed on the high rack, unless another instruction is recommended.

MICROWAVE + GRILL

This cooking mode combines the radiant heat that is coming from the grill with the speed of microwave cooking. It operates only while the door is closed and the turntable is rotating. Due to the rotation of the turntable, the food browns evenly. Three combination modes are available with this model:
600 W + Grill, 450 W + Grill and 300 W + Grill.

Cookware for cooking with microwaves + grill
Please use cookware that microwaves can pass through. Cookware should be flameproof. Do not use metal cookware with combination mode. Do not use any type of plastic cookware, as it can melt.

Food suitable for microwaves + grill cooking:
Food suitable for combination mode cooking include all kinds of cooked food which need reheating and browning (e.g. baked pasta), as well as foods which require a short cooking time to brown the top of the food. Also, this mode can be used for thick food portions that benefit from a browned and crispy top (e.g. chicken pieces, turning them over half way through cooking). Please refer to the grill table for further details.

IMPORTANT REMARK:
The food should be placed on the high rack, unless another instruction is recommended. Otherwise it has to be placed directly on the turntable. Please refer to the instructions in the following chart.
The food must be turned over, if it is to be browned on both sides.

Grill Guide for fresh food

Preheat the grill with the grill-function for 2-3 minutes.
Use the power levels and times in this table as guide lines for grilling.

Fresh Food	Portion	Power	1. Side Time (min.)	2. Side Time (min.)	Instructions
Toast Slices	4 pcs	Grill only	3-4	2-3	Put toast slices side by side on the high rack.
Grilled Tomatoes	400 g	300W+ Grill	5-6	-	Cut tomatoes into halves. Put some cheese on top. Arrange in a circle in a flat glass pyrex dish. Place it on the high rack. Stand for 2-3 minutes.
Tomato-Cheese Toast	4 pcs (300 g)	300W+ Grill	4½-5½	-	Toast the bread slices first. Put the toast with topping on the high rack. Stand for 2-3 minutes
Baked Potatoes	500 g	600W+ Grill	7-8	-	Cut potatoes into halves. Put them in a circle on the high rack with the cut side to the grill.
Gratin Potatoes / vegetables (chilled)	450 g	450W+ Grill	8-10	-	Put the fresh gratin into a small glass pyrex dish. Put the dish on the high rack. After cooking stand for 2-3 minutes.
Chicken Pieces	500 g (2pcs)	300W+ Grill	9-10	7-8	Brush chicken pieces with oil and spices. Put them in a circle on the high rack. After grilling stand for 2-3 minutes
Beef Steaks (medium)	400 g (2pcs)	Grill only	12-14	6-8	Brush the beef steaks with oil. Lay them in a circle on the high rack. After grilling stand for 2-3 minutes.
Roast Fish	400-500 g	300W+ Grill	4½-5½	5½-6½	Brush skin of whole fish with oil and add herbs and spices. Put two fish side by side (head to tail) on the high rack. After grilling stand for 2-3 minutes.

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CONVECTION

Cooking with convection is the traditional and well known method of cooking food in a traditional oven with hot air.
The heating element and the fan are situated on the back-wall, so that the hot air is circulating.

Cookware for convection cooking:
All conventional ovenproof cookware, baking tins and sheets – anything you would normally use in a traditional convection oven – can be used.

Food suitable for convection cooking:
All biscuits, individual scones, rolls and cakes should be made by this mode as well as rich fruit cakes, choux pastry and soufflés.

MICROWAVES +CONVECTION

This mode combines the microwave energy with the hot air and is therefore reducing the cooking time while giving the food a brown and crispy surface.
Cooking with convection is the traditional and well known method of cooking food in an oven with hot air circulated by a fan on the back-wall.

Cookware for cooking with microwaves + convection:
Should be able to let the microwaves pass through. Should be ovenproof (like glass, pottery or china without metal trims); similar to the cookware described under MW + Grill.

Food suitable for microwave + convection cooking:
All kinds of meats and poultry as well as casseroles and gratin dishes, sponge cakes and light fruit cakes, pies and crumbles, roast vegetables, scones and breads.

Convection Guide for fresh and frozen food

Preheat the convection with the fast pre-heat function to the desired temperature.
Use the power levels and times in this table as guide lines for convection cooking

Fresh Food	Portion	Power	1. Side Time (min.)	2. Side Time (min.)	Instructions
PIZZA Frozen Pizza (ready baked)	300-400g	450 W + 250°C	10-13	-	Place the pizza on the low rack. After baking stand for 2-3 minutes
PASTA Frozen Lasagne	400g	450 W + 220°C	18-20	-	Put into a suitable sized glass pyrex dish or leave in the original packaging (take care that this is suitable for microwaves and oven heat). Put frozen lasagne on the low rack. After cooking stand for 2-3 minutes.
MEAT Roast Beef/ Roast Lamb (medium)	1200-1300g	450W + 180°C	19-21	11-13	Brush beef/ lamb with oil and spice it with pepper, salt and paprika. Put it on the low rack, first with the fat side down. After cooking wrap in aluminium foil and stand for 10-15minutes.
Roast Chicken	1100-1200g	450 W + 200°C	16-18	12-15	Brush chicken with oil and spices. Put chicken first breast side down, second side breast side up on the low rack. Stand for 5 minutes.
BREAD Fresh Bread Rolls (fresh dough)	4pcs(200g)	100 W + 200°C	11-13		Put bread rolls in a circle on the low rack. Use oven gloves while taking out! Stand 2-3 minutes.

Cooking Guide (continued)

Fresh Food	Portion	Power	1. Side Time (min.)	2. Side Time (min.)	Instructions
Garlic Bread (chilled, pre-baked)	200 g (1pc)	180 W + 180°C	6-7		Put the chilled baguette on the low rack. After baking stand for 2-3 minutes.
CAKE Marble Cake/ (fresh dough)	500g	180 W + 180°C	20-25		Put the fresh dough in a rectangular silicone baking dish (length 25 cm). Put the dish on the low rack. After baking stand for 5-10 minutes.
Muffins (fresh dough)	6 x 70 g (400-500 g)	100 W + 180°C	18-22		Fill the fresh dough evenly in silicone baking dish suitable for 6 large muffins. Put the dish on the low rack. After baking stand for 5 minutes.

SPECIAL HINTS

MELTING BUTTER
Put 50 g butter into a small deep glass dish. Cover with plastic lid.
Heat for 20-30 seconds using 900 W, until butter is melted.

MELTING CHOCOLATE
Put 100 g chocolate into a small deep glass dish.
Heat for 3-4 minutes, using 450 W until chocolate is melted.
Stir once or twice during melting. Use oven gloves while taking out!

MELTING GELATINE
Lay dry gelatine sheets (10 g) for 5 minutes into cold water.
Put drained gelatine into a small glass pyrex bowl.
Heat for 1 minute using 300 W.
Stir after melting.

COOKING JAM
Put 600 g fruits (for example mixed berries) in a suitable sized glass pyrex bowl with lid. Add 300 g preserving sugar and stir well.
Cook covered for 9-11 minutes using 900 W.
Stir several times during cooking. Empty directly into small jam glasses with twist-off lids. Stand on lid for 5 minutes.

COOKING PUDDING / CUSTARD
Mix pudding powder with sugar and milk (500 ml) by following the manufacturers instructions and stir well. Use a suitable sized glass pyrex bowl with lid. Cook covered for 6 ½ to 7 ½ minutes using 900 W.
Stir several times well during cooking.

Cleaning Your Microwave Oven

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The following parts of your microwave oven should be cleaned regularly to prevent grease and food particles from building up:

- ***Inside and outside surfaces***
- ***Door and door seals***
- ***Turntable and Roller rings***

☛ **ALWAYS** ensure that the door seals are clean and the door closes properly.

☛ Failure to maintain the oven in a clean condition could lead to deterioration of the surface that could adversely affect the of the appliance and possibly result in a hazardous situation.

1. Clean the outside surfaces with a soft cloth and warm, soapy water. Rinse and dry.
2. Remove any splashes or stains on the inside surfaces or on the roller ring with a soapy cloth. Rinse and dry.
3. To loosen hardened food particles and remove smells, place a cup of diluted lemon juice on the turntable and heat for ten minutes at maximum power.
4. Wash the dishwasher-safe plate whenever necessary.

✉ **DO NOT** spill water in the vents. **NEVER** use any abrasive products or chemical solvents. Take particular care when cleaning the door seals to ensure that no particles:

- Accumulate
- Prevent the door from closing correctly

✉ Clean the microwave oven cavity right ofter each use with a mild detergent solution, but let the microwave oven cool down before cleaning in order to avoid injury.

✉ The instructions for cooking ranges, hobs and ovens shall state that a steam cleaner is not to be used.

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Storing and Repairing Your Microwave Oven

A few simple precautions should be taken when storing or having your microwave oven serviced.

The oven must not be used if the door or door seals are damaged:

- ***Broken hinge***
- ***Deteriorated seals***
- ***Distorted or bent oven casing***

Only a qualified microwave service technician should perform repairs.

☛ **NEVER** remove the outer casing from the oven. If the oven is faulty and needs servicing or you are in doubt about its condition:

- Unplug it from the wall socket
- Contact the nearest after-sales service centre

✉ If you wish to store your oven away temporarily, choose a dry, dust-free place.

- **Reason:** Dust and damp may adversely affect the working parts in the oven.

Technical Specifications

SAMSUNG strives to improve its products at all times. Both the design specifications and these user instructions are thus subject to change without notice.

Power source	230 V ~ 50 Hz AC
Power consumption	
Maximum power	3200 W
Microwave	1500 W
Grill (heating element)	1200 W
Convection (heating element)	1700 W
Output power	100 W / 900 W - 6 levels (IEC-705)
Operating frequency	2450 MHz
Dimensions (W x D x H)	
Outside	602 x 584 x 351 mm
Oven cavity	419 x 411 x 264 mm
Volume	1.6 Cubic feet
Weight	
Net	24.5 kg approx.

SAMSUNG ELECTRONICS

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care centre.

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